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	Application No.	Applicant(s)	
	10/676,732	KUSAKABE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ishwar (I. B.) Patel	2841	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. \boxtimes This communication is responsive to <u>response filed on May</u>	<u>′ 31, 2005</u> .		
2. The allowed claim(s) is/are 1-21.			
3. The drawings filed on are accepted by the Examiner	•		
4.			
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/30/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. Notice of Informal 6. Interview Summar Paper No./Mail D 7. Examiner's Amend 8. Examiner's Staten 9. Other	y (PTO-413), ate dment/Comment	

Application/Control Number: 10/676,732

Art Unit: 2841

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: The specification to change as below for minor typographical mistakes:

- (a) "104", page 2, line 20, to be replaced by - 104f -.
- (b) "(P)lane", page 7, line 9, 12 and 25 and page 8, line 1, to be replaced by -- plan -- (at four places).
 - (c) "VIIII-VIIII", page 8, line 13, to be replaced by -- VIII VIII -.
- (d) ",,m", page 14, line 22, 23 and page 19, line 28 and 29, to be replaced by µm - - (at four places).
- 2. The following changes to be made in the drawing:

Application/Control Number: 10/676,732

Art Unit: 2841

Reference numeral "211b" on left side of figure 2, to be replaced by - - 211a - -.

3. The following is an examiner's statement of reasons for allowance:

Regarding claims 1 and 11:

The claimed structure of a circuit board with the limitations "(A) first power distribution plane provided on the first surface so as to occupy a residual area of the first signal strip" and "(A) second power distribution plane provided on the second surface so at to occupy a residual area of the lands", in combination of other claimed limitations has not been disclosed or suggested by prior art of record alone or in combination.

Claims 2-10 and 12-21, directly or indirectly, depend on claims 1 and 11 respectively.

The closest prior art located by the examiner as described below do not disclose such circuit board structure.

Valluri et al., US Patent No. 6,507,100, in figure 3, discloses dummy areas (33, 42), on top and bottom surfaces of a printed circuit board, but those dummy areas are explicitly designed as electrically non-functional areas.

Yamaji et al., US Patent No. 6,198,165, in figure 1 and 2, discloses a substrate with wiring patterns (8) surrounded by dummy patterns 14. However, this is only a single layer circuit board and the patterns 14 are positively designed as dummy patterns.

lwasaki et al., US Patent Publication Number 2002/0096357, in figure 1, discloses a circuit board (11) with electrically floating conductive layers (20, 21) around

Application/Control Number: 10/676,732

Art Unit: 2841

interconnect layer 17 and 18, respectively. However, the conductive layers (20, 21) are positively designed as electrically floating layers and are electrically floating.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Claim 19, withdrawn from consideration as a result of restriction requirement, has been rejoined and fully examined for patentability, as it depends and include all the limitations of the allowable claim 11.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the Office action mailed on May 11, 2005 is hereby withdrawn.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ishwar (I. B.) Patel whose telephone number is (571) 272 1933. The examiner can normally be reached on M-F (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272 1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/676,732 Page 5

Art Unit: 2841

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ishwar (I. B.) Patel

Examiner Art Unit: 2841 June 9, 2005.

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800